

## ABSTRACT

A controller (101) designates the method of integrating viewpoint images. An image integrator (102) creates an integrated image by placing individual viewpoint images in appropriate positions. A 3D image control information creator (103) creates 3D image control information by formatting the placement mode of individual viewpoint images and various 3-dimensional image characteristics. An encoder (104) encodes integrated image data. A multiplexer (105) multiplexes the coded data and the 3D image control information and outputs them. A filename deciding unit (106) decides the name of a file when multiplexed data is recorded as a file. A storage directory deciding unit (107) decides the directory in which a file to be recorded is stored. A file creator (108) records a file with the decided filename under the decided storage directory. Thus, the distinction between 3-dimensional display image data and 2-dimensional image data can be clarified.